



OCD Received
5/19/2020

2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: ME180052
Cust No: 52200-10400

Well/Lease Information

Customer Name: MERRION OIL & GAS CORP.
Well Name: PIEDRA VISTA 1Z; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: DK
Cust. Stn. No.:

Source: CASING
Well Flowing: Y
Pressure: 218 PSIG
Flow Temp: DEG. F
Ambient Temp: 75 DEG. F
Flow Rate: 45 MCF/D
Sample Method: Purge & Fill
Sample Date: 08/01/2018
Sample Time: 9.15 AM
Sampled By: TIM MERILATT
Sampled by (CO): MERRION

Heat Trace:
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5304	0.5352	0.0590	0.00	0.0051
CO2	1.2638	1.2752	0.2160	0.00	0.0192
Methane	78.6359	79.3483	13.3770	794.22	0.4356
Ethane	11.1006	11.2012	2.9790	196.45	0.1152
Propane	4.8079	4.8515	1.3290	120.97	0.0732
Iso-Butane	0.7498	0.7566	0.2460	24.38	0.0150
N-Butane	1.3609	1.3732	0.4310	44.40	0.0273
I-Pentane	0.4543	0.4584	0.1670	18.18	0.0113
N-Pentane	0.3833	0.3868	0.1390	15.37	0.0095
Hexane Plus	0.7131	0.7196	0.3190	37.59	0.0236
Total	100.0000	100.9060	19.2620	1251.55	0.7352

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
BTU/CU.FT IDEAL: 1254.4
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1259.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1237.2
DRY BTU @ 15.025: 1284.3
REAL SPECIFIC GRAVITY: 0.7376

CYLINDER #: 4036
CYLINDER PRESSURE: 218 PSIG
ANALYSIS DATE: 08/02/2018
ANALYSIS TIME: 12:40:00 AM
ANALYSIS RUN BY: SHYANN ELLEDGE

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500

Last Cal/Verify: 08/03/2018

GC Method: C6+ Gas



MERRION OIL & GAS CORP.
WELL ANALYSIS COMPARISON

Lease: PIEDRA VISTA 1Z; CSG
Stn. No.:
Mtr. No.:

CASING
DK

08/03/2018
52200-10400

Smpl Date: 08/01/2018
Test Date: 08/02/2018
Run No: ME180052

Nitrogen: 0.5304
CO2: 1.2638
Methane: 78.6359
Ethane: 11.1006
Propane: 4.8079
I-Butane: 0.7498
N-Butane: 1.3609
I-Pentane: 0.4543
N-Pentane: 0.3833
Hexane+: 0.7131

BTU: 1259.1
GPM: 19.2620
SPG: 0.7376



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: ME180053
Cust No: 52200-10405

Well/Lease Information

Customer Name: MERRION OIL & GAS CORP.
Well Name: PIEDRA VISTA 1Z; TBG
County/State: SAN JUAN NM
Location:
Field:
Formation: DK
Cust. Stn. No.:

Source: TUBING
Well Flowing:
Pressure: 118 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: 45 MCF/D
Sample Method:
Sample Date: 08/01/2018
Sample Time: 11.10 AM
Sampled By: TIM MERILATT
Sampled by (CO): MERRION

Heat Trace:
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6191	0.6227	0.0680	0.00	0.0060
CO2	1.2427	1.2500	0.2130	0.00	0.0189
Methane	80.9844	81.4571	13.7720	817.94	0.4486
Ethane	10.0106	10.0690	2.6860	177.16	0.1039
Propane	4.1298	4.1539	1.1410	103.91	0.0629
Iso-Butane	0.6411	0.6448	0.2100	20.85	0.0129
N-Butane	1.1373	1.1439	0.3600	37.10	0.0228
I-Pentane	0.3782	0.3804	0.1390	15.13	0.0094
N-Pentane	0.3140	0.3158	0.1140	12.59	0.0078
Hexane Plus	0.5428	0.5460	0.2430	28.61	0.0180
Total	100.0000	100.5836	18.9460	1213.29	0.7111

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT IDEAL: 1216.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1220.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1199.0
DRY BTU @ 15.025: 1244.6
REAL SPECIFIC GRAVITY: 0.7133

CYLINDER #: 170
CYLINDER PRESSURE: 125 PSIG
ANALYSIS DATE: 08/02/2018
ANALYSIS TIME: 01:17:00 PM
ANALYSIS RUN BY: SHYANN ELLEDGE

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500

Last Cal/Verify: 08/03/2018

GC Method: C6+ Gas



MERRION OIL & GAS CORP.
WELL ANALYSIS COMPARISON

Lease: PIEDRA VISTA 1Z; TBG
Stn. No.:
Mtr. No.:

TUBING
DK

08/03/2018
52200-10405

Smpl Date: 08/01/2018
Test Date: 08/02/2018
Run No: ME180053
Nitrogen: 0.6191
CO2: 1.2427
Methane: 80.9844
Ethane: 10.0106
Propane: 4.1298
I-Butane: 0.6411
N-Butane: 1.1373
I-Pentane: 0.3782
N-Pentane: 0.3140
Hexane+: 0.5428
BTU: 1220.2
GPM: 18.9460
SPG: 0.7133



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: ME180051
Cust No: 52200-10395

Well/Lease Information

Customer Name: MERRION OIL & GAS CORP.
Well Name: PIEDRA VISTA 1Z; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: BRADENHEAD
Well Flowing:
Pressure: 27 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 08/01/2018
Sample Time: 9.50 AM
Sampled By: TIM MERILATT
Sampled by (CO): MERRION

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.7032	1.6772	0.1880	0.00	0.0165
CO2	0.0106	0.0104	0.0020	0.00	0.0002
Methane	94.9381	93.4867	16.1250	958.87	0.5259
Ethane	2.4366	2.3993	0.6530	43.12	0.0253
Propane	0.6284	0.6188	0.1730	15.81	0.0096
Iso-Butane	0.1271	0.1252	0.0420	4.13	0.0026
N-Butane	0.0833	0.0820	0.0260	2.72	0.0017
I-Pentane	0.0260	0.0256	0.0100	1.04	0.0006
N-Pentane	0.0104	0.0102	0.0040	0.42	0.0003
Hexane Plus	0.0363	0.0357	0.0160	1.91	0.0012
Total	100.0000	98.4711	17.2390	1028.03	0.5837

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
BTU/CU.FT IDEAL: 1030.4
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1032.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1014.6
DRY BTU @ 15.025: 1053.3
REAL SPECIFIC GRAVITY: 0.5847

CYLINDER #: 6009
CYLINDER PRESSURE: 27 PSIG
ANALYSIS DATE: 08/02/2018
ANALYSIS TIME: 01:05:36 PM
ANALYSIS RUN BY: SHYANN ELLEDGE

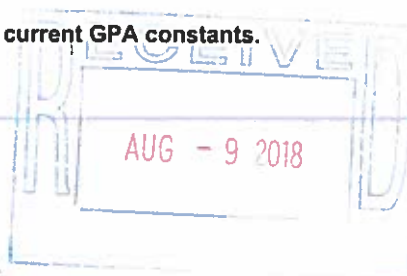
GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500

GC Method: C6+ Gas

Last Cal/Verify: 08/03/2018





MERRION OIL & GAS CORP.
WELL ANALYSIS COMPARISON

Lease: PIEDRA VISTA 1Z; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD

08/03/2018
52200-10395

Smpl Date: 08/01/2018
Test Date: 08/02/2018
Run No: ME180051

Nitrogen: 1.7032
CO2: 0.0106
Methane: 94.9381
Ethane: 2.4366
Propane: 0.6284
I-Butane: 0.1271
N-Butane: 0.0833
I-Pentane: 0.0260
N-Pentane: 0.0104
Hexane+: 0.0363

BTU: 1032.6
GPM: 17.2390
SPG: 0.5847